

ABSTRACTMass Spectrometry

5 The invention provides a method of measuring the
molecular mass of a compound Y of unknown molecular mass by
mass spectrometry, comprising providing a sample of
compound Y, providing samples of at least two different
compounds each of formula (I) R-X in which R is a trityl
10 group and X is cleavable to form a charged species for mass
spectrometry, and recording the molecular mass of compound
Y and the at least two compounds of formula (I) in a mass
spectrometer. Thus compounds of formula (I) may be used as
calibration compounds for mass spectrometry. They may also
be used in a kit for the production of calibration
15 compounds mass spectrometry comprising:

- (a) at least one base reactant of formula (I) R-X
where R is a trityl group and X is cleavable to form a
charged species for mass spectrometry and
- (b) at least two different amine compounds which are
20 of different molecular masses and which are each capable of
reacting with the base reactant and base reactant (a) is
packaged separately from amine compounds (b).